CENTRAL FAX CENTER

Application Serial No. 10/537,733
Reply to Office Action of November 6, 2009

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PATENT Pocket: CU-6562

Amendments to the Claims

The listing of claims presented below replaces all prior versions, and listings, of claims in the application.

Listing of claims:

- 1. (currently amended) A filler sheet for a solar cell module, which is formed as a filler sheet laminated on front face and rear face sides of a solar cell element, and is made of a resin film produced by a resin composition comprising a copolymer of an a-olefin and an ethylenic unsaturated silane compound, or a modified or condensed body thereof, and one or more selected from a group consisting of a light resisting agent, an ultraviolet absorbent and a thermal stabilizer.
- 2. (original) The filler sheet for a solar cell module according to claim 1, wherein the α-olefin is one or more selected from a group consisting of ethylene, propylene, 1-butene, isobutylene, 1-pentene, 2-methyl-1-butene, 3-methyl-1-butene, 1-hexene, 1-heptene, 1-octene, 1-nonene, and 1-decene.
- 3. (previously presented) The filler sheet for a solar cell module according to claim 1, wherein the ethylenic unsaturated silane compound is one or more selected from a group consisting of vinyltrimethoxysilane, vinyltriethoxysilane, vinyltripropoxysilane, vinyltripropoxysilane, vinyltributoxysilane, vinyltribenzyloxysilane, vinyltripentyloxysilane, vinyltribenzyloxysilane, vinyltrimethylenedioxysilane, vinyltriethylenedioxysilane, vinylpropionyloxysilane, vinyltriacetoxysilane, and vinyltricarboxysilane.
- 4. (previously presented) The filler sheet for a solar cell module according to claim 1, wherein the copolymer of the α-olefin and the ethylenic unsaturated silane compound is a copolymer which further comprises one or more selected from a group consisting of vinyl acetate, acrylic acid, methacrylic acid, methyl acrylate, methyl methacrylate, ethyl acrylate, and vinyl alcohol.
- 5. (withdrawn) A filler sheet for solar cell, which is formed as a filler sheet laminated on front face and rear face sides of a solar cell element, and is made of a

Application Serial No. 10/537,733
Reply to Office Action of November 6, 2009

PATENT Docket: CU-6562

resin film produced by a resin composition comprising a maleic anhydride modified polyolefin.

- 6. (withdrawn) The filler sheet for solar cell according to claim 5, wherein the resin composition further comprises one or more selected from a group consisting of a light resisting agent, an ultraviolet absorbent and a thermal stabilizer.
- 7. (withdrawn) The filler sheet for solar cell according to claim 5, wherein the maleic anhydride modified polyolefin is a substance modified by graft-copolymerizing a polyolefin with maleic anhydride, and a content ratio of maleic anhydride in the maleic anhydride modified polyolefin ranges from 0.001 to 30% by weight.
- 8. (withdrawn) The filler sheet for solar cell according to claim 5, wherein the maleic anhydride modified polyolefin has a weight-average molecular weight of 1,000 to 1300,000, the molecular weight being obtained by a gel permeation chromatography, and a ratio of the weight-average molecular weight (Mw) to a number-average molecular weight (Mn), (Mw/Mn), is 6 or less.
- 9. 10. (cancelled)
 - 11. (previously presented) The filler sheet for a solar cell module according to claim 1, wherein the thermal stabilizer is made of a phosphorus type thermal stabilizer, a phenol type thermal stabilizer, or a lactone type thermal stabilizer.
 - 12. 13. (cancelled)
 - 14. (previously presented) The filler sheet for a solar cell module according to claim 1, wherein the thermal stabilizer is contained at the content ratio of 0.05 to 5% by weight of the copolymer of the α-olefin and the ethylenic unsaturated silane compound, or the modified or condensed body thereof, or a maleic anhydride modified polyolefin.
 - 15. 21. (cancelled)

Application Serial No. 10/537,733
Reply to Office Action of November 6, 2009

PATENT Docket: CU-6562

- 22. (previously presented) The filler sheet for a solar cell module according to claim 1, wherein the thermal stabilizer is made of a lactone type thermal stabilizer.
- 23. (previously presented) The filler sheet for a solar cell module according to claim 1, wherein the α-olefin is straight chain low density polyethylene, and the ethylenic unsaturated silane compound is vinyltrimethoxysilane.
- 24. (previously presented) The filler sheet for a solar cell module according to claim 1, comprising a light resisting agent made of a hindered amine type light stabilizer.
- 25. (previously presented) The filler sheet for a solar cell module according to claim 1, comprising an ultraviolet absorber made of a benzophenone type, triazole type, salicylic acid derivative type, or acrylonitrile derivative type ultraviolet absorbent.
- 26. (previously presented) The filler sheet for a solar cell module according to claim 24, wherein the light resisting agent is contained at a content ratio of 0.01 to 5% by weight of the copolymer of the α-olefin and the ethylenic unsaturated silane compound, or the modified or condensed body thereof, or a maleic anhydride modified polyolefin.
- 27. (previously presented) The filler sheet for a solar cell module according to claim 25, wherein the ultraviolet absorbent is contained at the content ratio of 0.05 to 5% by weight of the copolymer of the α-olefin and the ethylenic unsaturated silane compound, or the modified or condensed body thereof, or a maleic anhydride modified polyolefin.
- 28. (withdrawn) A solar cell module made by laminating a front face protecting sheet, a filler sheet, a solar cell element, a filler sheet and a rear face protecting sheet in sequence so as to be integrated, wherein the filler sheets are each the filler sheet for a solar cell module according to claim 1.

Application Serial No. 10/537,733
Reply to Office Action of November 6, 2009

PATENT Docket: CU-6562

- 29. (withdrawn) The solar cell module according to claim 28, wherein the front face protecting sheet is made of a glass plate, a fluorine-contained resin sheet, a cyclicpolyolefin resin sheet, a polycarbonate resin sheet, a poly(meth) acrylic resin sheet, a polyamide resin sheet, or a polyester resin sheet.
- 30. (withdrawn) The solar cell module according to claim 28, wherein the solar cell element is made of a crystal silicon solar cell element or an amorphous silicon solar cell element.
- 31. (withdrawn) The solar cell module according to claim 28, wherein the rear face protecting sheet is made of a metal plate or metal foil, a fluorine-contained resin sheet, a cyclic polyolefin resin sheet, a polycarbonate resin sheet, a polycarbonate resin sheet, a polycarbonate resin sheet.
- 32. (withdrawn) The solar module according to claim 28, wherein the front face protecting sheet and the filler sheet are beforehand laminated and integrated with each other.
- 33. (withdrawn) The solar cell module according to claim 28, wherein the rear face protecting sheet and the filler sheet are beforehand laminated and integrated with each other.
- 34. (withdrawn) The solar cell module according to claim 28, wherein a gel fraction in each of the filler sheets is 10% or less.